Application No. 10/520,037 Amendment dated September 16, 2008 Reply to Office Action of June 20, 2008

Appendix A

Docket No.: 19036/40139

International Cosmetic Ingredient Dictionary and Handbook

Eleventh Edition 2006

Volume 2

INCI Name Monographs I-S

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International Cosmetic Ingredient Dictionary and Handbook

Eleventh Edition 2006

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Volume 2

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Macrogol 1000 (NOF) Pluracol E 1000 (BASF) Polyglykol 1000 (Clarlant) Polyglykol 1000 (Clarlant GmbH, Personal Care) Renex PEG 1000 (Uniqema Americas) Sabopeg 1000 (Sabo) Toho PEG#1000 (Toho) Unipeg-1000 X (Universal Preserv-A-

Uplwax 1000 (Universal Preserv-A-Chem) Trade Name Mixtures

Silwax WS (Siltech LLC) Suncaps 664 (Particle Sciences) Sunceps 903 (Particle Sciences)

PEG-32

CTFA Monograph ID: 1955

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-32 CN Translation: 聚乙二醇-32

Defir n: PEG-32 is the polymer of ethyle.... oxide that conforms generally to the formula:

H(OCH2CH2), OH

where n has an average value of 32.

Information Sources: BAN, BP, BPC, 21CFR172.210, 21CFR172.770, 21CFR172.820, 21CFR173.310, 21CFR173.340, 21CFR175.105, 21CFR175.300, 21CFR178.3750, 21CFR178.3910, CIR: [SQ] JACT-12(5)-1993, CTFA S, CZE, FCC, HUN, INN, JAN. JCIC, JCLS, JSQI, MAR, MI-13(7651), NF XVIII, TSCA, USAN, USD

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Reported Product Categories: Bath Oils, Tables and Salts; Moisturizing Preparations; ig Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Bath Capsules Skin Care Preparations, Misc.; Dentifrices (Aerosol, Liquid, Pastes and Powders); Bath Preparations, Misc.; Body and Hand Preparations (Excluding Shaving Preparations); Face and Neck Preparations (Excluding Shaving Preparations); Paste Masks (Mud Packs); Mascara

Technical/Other Names: macrogol (INN) Polyethylene Glycol 1540 Polyoxyethylene (32)

Trade Names:

Carbowax PEG 1450 (Dow Chemical) Jeechem 1450 NF (Jellice Co. LTD) Lipo Polyglycol 1500 (Lipo) Lipo Polyglycol 3350 (Lipo) Lipoxol 1500 MED (Sasol GmbH - Marl) Lumulse PEG 1450 (Lambent) Macrogol 1500 (NOF) Macrogol 1540 (NOF) Pluracare E 1500 (BASF) Pluracol E 1450 (BASF) Polyglycol E1450 (Dow Chemical) Połygłykol 1500 (Clariant) Polyglykol 1500 (Clariant GmbH, Personal Care) Protachem 1450 NF (Protameen) Renex PEG 1500 (Uniqema Americas) Sabopeg 1500 (Sabo) Sympatens-PEG/1500 G (Kolb) Toho PEG#1540 (Toho) Unipeg-1540 X (Universal Preserv-A-Chem)

Trade Name Mixtures:

Carbowax PEG 540 Blend (Dow Chemical) Lanogen 1500 (Clariant) Lanogen 1500 (Clariant GmbH, Personal Care) SwertianIn-P (Ichlmaru Pharcos) Unipeg-1500 X (Universal Preserv-A-Chem) Uniwax 1450 (Universal Preserv-A-Chem)

PEG-33

CTFA Monograph ID: 17410

Definition: PEG-33 is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2LOH

where n has an average value of 33.

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic Technical/Other Names: Polyethylene Glycol (33) Polyoxyethylene (33)

Trade Name Mixtures:

SilSense Copalyol-1 Silicone (Noveon) SilSense Copolyol-7 Silicone (Novean)

PEG-40

CTFA Monograph ID: 1956 CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-40

CN Translation: 聚乙二醇-40

Definition: PEG-40 is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH3)_OH

where n has an average value of 40.

Information Sources: BAN 21CFR172.210, 21CFR172.770, 21CFR172.820, 21CFR173.310, 21CFR173.340, 21CFR175.105, 21CFR175.300, 21CFR176.200, 21CFR178.3750, 21CFR178.3910, INN, JAN, JCIC, JCLS, MI-13(7651), NF XVIII, ROM, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN) Polyethylene Glycol (2000) Polyoxyethylene (40)

Trade Names:

Pluracol E 2000 (BASF) Polyglykol 2000 (Clariant) Polyglykol 2000 (Clariant GmbH, Personal Care)

PEG-45

CTFA Monograph ID: 11904 CAS No.: 25322-68-3 (Generic) Definition: PEG-45 is the polymer of

ethylene oxide that conforms generally to the

formula:

H(OCH2CH2),OH

where n has an average value of 45.

Information Source: INN

Chemical Classes: Alkoxylated Alcohols:

Polymeric Ethers

Functions: Binder; Humectant; Solvent Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN) Polyethylene Glycol (45) Polyoxyethylene (45)

Trade Name:

Toho PEG#2000 (Toho)

PEG-55

CTFA Monograph ID: 7532

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MEG-55 (Cont.)

CAS No.: 25322-68-3 (Generic)

CN Translation: 聚乙二醇-55

Definition: PEG-55 is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH₂CH₂)_nOH

where n has an average value of 55.

Information Sources: BAN, INN, JAN, NF XVIII, USAN

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic Technical/Other Names: macrogol (INN) Polyethylene Glycol (55) Polyoxyethylene (55)

Trade Names:

Jeechem 3350 NF (Jellice Co. LTD) Renex PEG 3350 (Uniqema Americas)

PEG-60

CTFA Monograph ID: 5425 CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-60 CN Translation: 聚乙二醇-60

Definition: PEG-60 is the polymer of ethylene oxide that conforms generally to the

H(OCH2CH2),OH

where n has an average value of 60.

information Sources: BAN, INN, JAN, MI-13(7651), NF XVIII, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN) Polyethylene Glycol 3000

Polyoxyethylene (60) Trade Names:

Polyglykol 3000 (Clarlant) Polyglykol 3000 (Clariant GmbH, Personal

PEG-75

CAS No.: 25322-68-3 (Generic)

JPN Translation:

Definition: PEG-75 is the polymer of ethylene oxide that conforms generally to the

H(OCH2CH2),OH

where n has an average value of 75.

Information Sources: BAN, BP, BPC, BRA, 21CFR172.210, 21CFR172.770, 21CFR172.820, 21CFR173.310, 21CFR173.340, 21CFR175.105. 21CFR175.300, 21CFR178.3750, 21CFR178.3910, CIR: [SQ] JACT-12(5)-1993, CTFA S, FCC, HUN, INN, JAN, JCLS, JSCI, MAR, MI-13(7651), NF XVIII, NFJ, PN, POL, ROM, TSCA, USAN, USD

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Reported Product Categories: Skin Care Preparations, Misc.; Paste Masks (Mud Packs); Bath Oils, Tablets, and Salts; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Moisturizing Preparations

Technical/Other Names:

macrogol (INN) Polyethylene Glycol 4000 Polyoxyethylene (75)

Trade Names:

Carbowax PEG 3350 (Dow Chemical) Lipoxol 3350 MED (Sasol GmbH - Marl) Lumulse PEG 3350 (Lambent) Pluracare E 3400 (BASF) Pluracol E 4000 (BASF) Polyglykol 3350 (Clarlant) Polyglykol 3350 (Clarlant GmbH, Personal Care)

Protachem 75 (Protameen)

Renex PEG 4000 (Uniqema Americas) Sabopeg 4000 (Sabo)

Sympatens-PEG/4000 G (Kolb) Uplwax 3350 (Universal Preserv-A-Chem)

Trade Name Mixture:

Suncaps C (Particle Sciences)

PEG-80

CTFA Monograph ID: 16469

CAS No.: 25322-68-3 (Generic)

Definition: PEG-80 is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2)nOH

where n has an average value of 80.

Information Source: INN

Chemical Classes: Alkoxylated Alcohols

Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) Polyethylene Glycol (80) Polyethylene Glycol 4000 Polyoxyethylene (80)

Trade Name:

Protachem 400 (Protameen)

PEG-90

CTFA Monograph ID: 6966

CAS No.: 25322-68-3

JPN Translation: PEG - 90

CN Translation:

聚乙二醇-90

Definition: PEG-90 is the polymer of ethylene oxide that conforms to the formula:

H(OCH2CH2), OH

where n has an average value of 90.

Information Sources: BAN, INN, JAN, NF

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Humectant; Solvent

Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN)

Polyethylene Glycol (90) Polyoxyethylene (90)

Trade Names:

Lipoxol 4000 MED (Sasol GmbH - Marl) Macrogol 4000 (NOF)

Pluracare E 4000 (BASF) Polyglycol E-4000 (Dow Chemical)

Polyglykol 4000 (Clarlant)

Polyglykol 4000 (Clariant GmbH, Personal Care)

Toho PEG #4000 (Toho)

Unipeg-4000 X (Universal Preserv-A-Chem)

PEG-100

CTFA Monograph ID: 4098

CAS No.: 25322-68-3 (Generic)

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1550 · Monographs

CTFA Monograph ID: 1957

International Cosmetic Ingredient Dictionary and Handbook



PEG-2 Laurate SE (Cont.)

Definition: PEG-2 Laurate SE is a selfemulsifying grade of PEG-2 Laurate (q.v.) that contains some sodium and/or potassium laurate.

Information Sources: CIR: [SQ] IJT-19 (SUPPL. 2)2000, JCLS

Chemical Class: Alkoxylated Carboxylic Acids

Function: Surfactant - Emulsifying Agent Ingredient Sources: Plant; Synthetic

Technical/Other Names:

Diethylene Glycol Monolaurate Self-Emulsifving

Polyethylene Glycol 100 Monolaurate Self-Emulsifying

Polyoxyethylene (2) Monolaurate Self-Emulsifying

Trade Name: Lipo DGLS (Lipo)

Trade Name Mixture:

Pegosperse 100 L (Lonza Inc./Lonza Ltd.)

PEG-6 LAURATE/TARTRATE

CTFA Monograph ID: 5910

CN Translation:

PEG-6 月桂酸酯/酒石酸酯

Definition: PEG-6 Laurate/Tartrate is the mixed ester of PEG-6 and lauric and tartaric acids that conforms generally to the formula:

where n has an average value of 6.

Chemical Class: Alkoxylated Carboxylic Acids

Function: Surfactant - Emulsifying Agent Ingredient Sources: Plant; Synthetic

Technical/Other Name: PEG-6 Laurate/Tartarate

Trade Name:

Hydrophore 312 (Prod'Hyg)

PEG-180/LAURETH-50/TMMG COPOLYMER

CTFA Monograph ID: 12111

Definition: PEG-180/Laureth-50/TMMG Copolymer is a copolymer of PEG-180 (q.v.), a polyethylene glycol ether of lauryl alcohol with an average ethoxylation value of 50, and tetramethoxymethylglycouril monomers.

Chemical Class: Synthetic Polymers Function: Viscosity Increasing Agent -Aqueous

Ingredient Sources: Plant; Synthetic

Trade Name:

Pure Thix 1450 (Sud-Chemie, Performance Additives)

PEG-10/LAURYL DIMETHICONE CROSS-POLYMER

CTFA Monograph ID: 16203

JPN Translation:

(PEG - 10 / ラウリルジメチコン) クロスポリマー

Definition: PEG-10/Lauryl Dimethicone Crosspolymer is a copolymer of Lauryl Dimethicone (q.v.) crosslinked with diallyl PEG-10.

Chemical Classes: Siloxanes and Silanes; Synthetic Polymers

Functions: Surfactant - Suspending Agent; Viscosity Increasing Agent - Aqueous

Ingredient Sources: Plant; Synthetic

Trade Name Mixtures:

KSG-34 (Shin-Etsu Chemical Co.) KSG-340 (Shin-Etsu Chemical Co.)

PEG-15/LAURYL DIMETHICONE CROSS-POLYMER

CTFA Monograph ID: 16204

JPN Translation: (PEG - 1 5 / ラウリルジメチコン) ク ロスポリマー

Definition: PEG-15/Lauryl Dimethicone Crosspolymer is a copolymer of Lauryl Dimethicone (q.v.) crosslinked with diallyl PEG-15

Chemical Classes: Siloxanes and Silanes;

Synthetic Polymers

Function: Viscosity Increasing Agent -

Aqueous

Ingredient Sources: Plant; Synthetic

Trade Name Mixtures:

KSG-31 (Shin-Etsu Chemical Co.) KSG-32 (Shin-Etsu Chemical Co.) KSG-33 (Shin-Etsu Chemical Co.) KSG-34 (Shin-Etsu Chemical Co.) KSG-310 (Shin-Etsu Chemical Co.) KSG-320 (Shin-Etsu Chemical Co.) KSG-330 (Shin-Etsu Chemical Co.)

KSG-340 (Shin-Etsu Chemical Co.)

PEG-8 LINOLEATE

CTFA Monograph ID: 5452

CN Translation: PEG-8 亚油酸酯 Empirical Formula: C34H84O10

Definition: PEG-8 Linoleate is the polyethylene glycol ester of linoleic acid that conforms to the formula:

CH₃(CH₂)₄CH || CHCH₂CH O || || CH(CH₂)₇C — (OCH₂CH₂)₉OH

where n has an average value of 8.

Information Source: MI-13(7660)

Chemical Class: Alkoxylated Carboxylic Acids

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Function: Surfactant - Emulsifying Agent Ingredient Sources: Plant; Synthetic

Technical/Other Names:

Polyethylene Glycol 400 Linoleate Polyoxyethylene (8) Linoleate

Trade Name Mixture: Efevit S (Fabriquimica)

PEG-8 LINOLENATE

CTFA Monograph ID: 5453

CN Translation: PEG-8 亚麻酸酯 Empirical Formula: C34H62O10

Definition: PEG-8 Linolenate is polyethylene glycol ester of linolenic acid that conforms to the formula:

CHCH₂CH₃
||
CHCH₂CH
||
CHCH₂CH
||
||
CHCH₂CH
||
||
CH(CH₂)₇C — (OCH₂CH₂)_nOH

where n has an average value of 8. Information Source: MI-13(7660)

Chemical Class: Alkoxylated Carboxylic Acids

Function: Surfactant - Emulsifying Agent

ingredient Sources: Plant; Synthetic
Technical/Other Names:

Polyethylene Glycol 400 Linolenate Polyoxyethylene (8) Linolenate

Trade Name Mixture: Efevit S (Fabriquimica)

PEG-2M

CTFA Monograph ID: 1961

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CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-2M

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CN Translation: 聚乙二醇-2M

Definition: PEG-2M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2)nOH

where n has an average value of 2000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651), NF XVIII, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Reported Product Category: Hair Condi-

tioners

Technical/Other Names:

macrogol (INN)
PEG-2000
Polyethylene Glycol (2000)
Polyoxyethylene (2000)

Trade Name: Polyox WSR N-10 (Amerchol)

Trade Name Mixture:

Spectravell AQ (Uniqema Europe)

PEG-5M

CTFA Monograph ID: 1962 CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-5M CN Translation: 聚乙二醇-5M

Definition: PEG-5M is the polymer of ethylene oxide that conforms generally to the

formula:

H(OCH2CH2)nOH

where n has an average value of 5000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651), NF XVIII, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder, Emulsion Stabilizer, Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Reported Product Categories: Shampoos (Non-coloring); Hair Conditioners

Technical/Other Names:

macrogol (INN)
PEG-5000
Polyethylene Glycol (5000)
Polyoxyethylene (5000)

Trade Names:

Polyox WSR N-80 (Amerchol) Rita PEO-1 (Rita)

PEG-7M

CTFA Monograph ID: 1963

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-7M CN Translation: 聚乙二醇-7M

Definition: PEG-7M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2)nOH

where n has an average value of 7000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651), NF XVIII, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Reported Product Category: Shampoos

(Non-coloring)

Technical/Other Names:

macrogol (INN)
PEG-7000
Polyethylene Glycol (7000)
Polyoxyethylene (7000)

Trade Name:

Polyox WSR N-750 (Amerchol)

PEG-9M

CTFA Monograph ID: 3708

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG - 9 M

CN Translation: 聚乙二醇-9M **Definition:** PEG-9M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2)nOH

where n has an average value of 9000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175,300, 21CFR178.3910, INN, JSQI, MI-13(7651), NF XVIII, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN) PEG-9000 Polyethylene Glycol 9000 Polyoxyethylene (9000)

Trade Names:

Alkox E-30G (Meisel) Rita PEO-2 (Rita)

PEG-14M

CTFA Monograph ID: 1964

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-14M CN Translation: 聚乙二醇-14M

Definition: PEG-14M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2),OH

where n has an average value of 14000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, CIR: [SQ] JACT-12(5)-1993, INN, JSQI, MI-13(7651), NF XVIII, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Reported Product Categories: Shampoos (Non-coloring); Shaving Preparations, Misc.; Shaving Cream (Aerosol, Brushless and Lather); Bath Oils, Tablets, and Salts; Bath Soaps and Detergents; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads)

The inclusion of any compound in the Dictionary and Hendbook does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.



PEG-14M (Cont.)

Technical/Other Names:

macrogol (INN) PEG-14000

Polyethylene Glycol (14000)

Polyoxyethylene (14000)

Trade Names:

Polyox WSR-205 (Amerchol) Polyox WSR N-3000 (Amerchal)

PEG-20M

CTFA Monograph ID: 1965

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-20M

CN Translation:

聚乙二醇-20M

Definition: PEG-20M is the polymer of ethylene oxide that conforms generally to the

formula:

H(OCH2CH2)nOH

where n has an average value of 20000.

Information Sources: 21CFR172.770. 21CFR173.310, 21CFR175.300, 21CFR178.3910, CIR: [SQ] JACT-12(5)-1993, EP, INN, JSQI, MI-13(7651), NF XIX, TSCA, USAN

Chemical Classes: Alkoxylated Alcohols;

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) Macrogolum 20000 (EP)

PEG-20000

Polyethylene Glycol 20000

Polyoxyethylene (20000)

Trade Name Mixture:

Vegeles SR (Laboratoires Serobiologiques)

PEG-23M

CTFA Monograph ID: 3709

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG - 23M

CN Translation: 聚乙二醇-23M

Definition: PEG-23M is the polymer of ethylene oxide that conforms generally to the

formula:

H(OCH2CH2)nOH

where n has an average value of 23000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651),

NF XVIII, USAN

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Emulsion Stabilizer;

Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) PEG-23000

Polyethylene Glycol (23000)

Polyoxyethylene (23000)

Polyox WSR N-12K (Amerchol)

Rita PEO-3 (Rita)

PEG-25M

CTFA Monograph ID: 6480

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-25M

CN Translation:

聚乙二醇-25M

Definition: PEG-25M is the polymer of ethylene oxide that conforms generally to the

formula:

H(OCH2CH2), OH

where n has a value of 25000.

Information Sources: INN, JSQL

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder: Emulsion Stabilizer:

Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names: macrogol (INN)

PEG-25000

Polyethylene Glycol (25000)

Polyoxyethylene (25000)

PEG-45M

CTFA Monograph ID: 3710

CAS No.: 25322-68-3 (Generic)

JPN Translation:

PEG-45M

CN Translation:

聚乙二醇-45M

Definition: PEG-45M is the polymer of ethylene oxide that conforms generally to the

H(OCH2CH2),OH

where n has an average value of 45000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300.

21CFR178.3910, INN, JSQI, MI-13(7651),

NF XVIII, USAN

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Reported Product Category: Shampoos

(Non-coloring)

Technical/Other Names:

macrogol (INN) PEG-45000

Polyethylene Glycol (45000) Polyoxyethylene (45000)

Trade Name:

Polyox WSR N-60K (Amerchol)

PEG-65M

CTFA Monograph ID: 15211

CAS No.: 25322-68-3 (Generic)

Definition: PEG-65M is the polymer of

ethylene oxide that conforms generally to the

formula:

H(OCH₂CH₂),OH

where n has an average value of 65000.

Information Source: INN

Chemical Classes: Alkoxylated Alcohols;

Polymeric Ethers

Functions: Binder; Emulsion Stabilizer;

Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) Polyethylene Glycol (65000)

Polyoxyethylene (65000)

Trade Name:

Alkox E-100 (Melsei)

PEG-90M

CTFA Monograph ID: 1966

CAS No.: 25322-68-3 (Generic)

JPN Translation:

PEG - 90 M

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PEG-20 Mannitan Laurate

CN Translation:

Definition: PEG-90M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2),OH

where n has an average value of 90000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651), NF XVIII. TSCA, USAN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) PEG-90000 Polyethylene Glycol (90000) Polyoxyethylene (90000)

Trade Names:

Polyox WSR-301 (Amerchol) Ritá PEO-18 (Rita)

PEG-115M

CTFA Monograph ID: 3711

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-115M

CN Translation: 聚乙二醇-115M

Definition: PEG-115M is the polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2),OH

where n has an average value of 115000.

Information Sources: 21CFR172.770, 21CFR173.310, 21CFR175.300, 21CFR178.3910, INN, JSQI, MI-13(7651)

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) PEG-115000

Polyethylene Glycol (115000) Polyoxyethylene (115000)

Trade Name:

Alkox E-240 (Meisei)

PEG-160M

CTFA Monograph ID: 7730

CAS No.: 25322-68-3 (Generic)

JPN Translation: PEG-160M

CN Translation:

聚乙二醇-160M

Definition: PEG-160M is a polymer of ethylene oxide that conforms generally to the formula:

H(OCH2CH2)nOH

where n has an average value of 160000.

Information Source: INN

Chemical Classes: Alkoxylated Alcohols:

Polymeric Ethers

Functions: Binder; Emulsion Stabilizer; Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names: macropol (INN)

Polyethylene Glycol (160000) Polyoxyethylene (160000)

Trade Name:

Rita PEO-27 (Rita)

PEG-180M

CTFA Monograph ID: 18747

CAS No.: 25322-68-3 (Generic)

Definition: PEG-180M is the polymer of ethylene oxide that conforms generally to the

formula:

H(OCH2CH2),OH

where n has an average value of 180,000.

Information Source: INN

Chemical Classes: Alkoxylated Alcohols; Polymeric Ethers

Functions: Binder, Emulsion Stabilizer, Viscosity Increasing Agent - Aqueous

Ingredient Source: Synthetic

Technical/Other Names:

macrogol (INN) Polyethylene Glycol 118000

Trade Name:

Polyox WSR-308 (Amerchol)

PEG-16 MACADAMIA GLYCERIDES

CTFA Monograph ID: 12413

JPN Translation:

PEG-16マカデミアグリセリズ

Definition: PEG-16 Macadamia Glycerides is the polyethylene glycol derivative of the mono- and diglycerides derived from macadamia nut oil with an average of 16 moles of ethylene oxide.

Chemical Classes: Alkoxylated Alcohols; Glyceryl Esters and Derivatives

Functions: Skin-Conditioning Agent -Emollient; Surfactant - Emulsifying Agent

Ingredient Sources: Plant; Synthetic

Technical/Other Names

Polyethylene Glycol (16) Macadamia Glycerides

Polyoxyethylene (16) Macadamia Glycerides

Trade Name:

Florasolvs PEG-16 Macadamia (Floratech)

Trade Name Mixtures:

EiXtractives B (Essential Ingredients)
EiXtractives CS (Essential Ingredients) EiXtractives DS (Essential Ingredients) EiXtractives EC (Essential Ingredients) Eixtractives HL (Essential Ingredients) EiXtractives OS (Essential Ingredients) VitaCon ABCM (Essential Ingredients) VitaCon ACEM (Essential Ingredients) VitaCon ADEM (Essential Ingredients)
VitaCon AEKM (Essential Ingredients) VitaCon AEM (Essential Ingredients)

VitaCon AM (Essential Ingredients)

PEG-70 MANGO GLYCERIDES

CTFA Monograph ID: 6687

CN Translation:

PEG-70 芒果甘油酯类

Definition: PEG-70 Mango Glycerides is a polyethylene glycol derivative of the mono-. and diglycerides from mango seed oil containing an average of 70 moles of ethylene oxide.

Chemical Classes: Alkoxylated Alcohols; Glyceryl Esters and Derivatives

Functions: Skin-Conditioning Agent -Emollient; Surfactant - Cleansing Agent; Surfactant - Solubilizing Agent

Ingredient Sources: Plant: Synthetic

Technical/Other Names:

Polyethylene Glycol (70) Mango Glycerides Polyoxyethylene (70) Mango Glycerides

Trade Name:

Lipex 203 E-70 (Karlshamns AB)

PEG-20 MANNITAN LAURATE CTFA Monograph ID: 7402

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Appendix B

Docket No.: 19036/40139

ylenedioxythiophene), tion	tetramethacrylate end-
authachilate end-canned	

luenesulfonate dopant

0.01-0.5 S/cm (bulk conductivity)

dispersion in propylene carbonate), contains pfonate as dopant

6,000 (lit.)

1 189 g/mL, 25 °C 132 °C (270 °F) Moisture sensitive

85 80 25 q glass btl

(dispersion in nitromethane), contains pfona dopant applications 6,000

1 127 g/mL, 25 °C 2 S 41 Fp 36 °C (97 °F)

25 g 85 80 glass btl

w-co-ethyl acrylate)

(CH2CH2),[CH2CH(CO2C2H5)], 0 93 a/mL, 25 °C

ıyl acrylate: 18 wt. %, melt index 20

osity 0.78 dL/g(lit.) 116 °C 500 g 49 10

tyl acrylate: 18 wt. %, melt index 6 osity 0.81 dL/g(lit)

152 °C 500 g 55 20 glass btl

ne-co-glycidyl methacrylete)

87 °C (Vicat, ASTM D 1525-1kg) 99 °C density 0 94 g/mL, 25 °C

t index (190°C/2.16kg) 5 g/10 min

idyl functionality available for grafting or cross-

ile coatings and adhesion promoter ore A, ASTM D 2240) 92

thacrylate 8 wt. % 38 5 26-36 TSCA

glass btl

250 g glass btl 1 kg



Poly(ethylene glycol)					
Form	Mol. Wt.	M.P. (°C)	Viscosity at 210 °F (cSt)	Prod. No.	Price
łiquid	average mol wt 200	- 6 5	4 3	P3015-5G P3015-250G P3015-500G P3015-1KG P3015-20KG	9 00 12.90 21 50 33 20 531 00
viscous liquid	average M _n 285-315	-15-8	5.8	202371-5G 202371-250G 202371-500G 202371-1KG 202371-20KG	19.10 21.50 23.80 36.50 433.50
viscous liquid	average M _n 380-420	4-8	7 3	202398-5G 202398-250G 202398-500G 202398-20KG	19.10 23.40 43.30 432.50
waxy solid (moist)	average M., 570-630	20-25	10.5	202401-5G 202401-250G 202401-500G 202401-20KG	19-10 26-00 26-30 433-50
waxy solid	average Mn 850-950	32-36	16	372994	Inquire
waxy solid	average M., 950-1,050	39	17.4	P3515-5G P3515-250G P3515-500G P3515-1KG	13 10 18 00 21 60 32 40
waxy solid	average M _n 1,305-1,595	43-46	28	202436-5G 202436-250G 202436-500G 202436-20KG	15 50 22 80 30 60 382.00
chips	average M _n 1,900-2,200	52-54		295906-5G 295906-250G 295906-500G	20.10 24.20 31.10
powder	average M _n 3,015-3,685	54-58	90	202444-5G 202444-250G 202444-500G	21 60 29 00 33 60
flakes	average M _n 4,400-4,800	57-61	180	373001-10G 373001-250G 373001-1KG	21 30 24.80 55.00
powder (crystalline)	average M _i , 7,000-9,000	60-63	800	202452-5G 202452-250G 202452-500G	18.10 27.40 32.00
flakes	average M _n 8,500-11,500	63-65	•	309028-5G 309028-250G 309028-500G	18.70 22.10 26.10
waxy solid	average M _i , 14000	62-67	-	637726-100G 637726-1KG	24 50 136 00

Poly(ethylene glycol) acrylete

[9051-31-4] H₂C=CHCO(OCH₂CH₂),OH density 1 12 g/mL, 25 °C n_D²⁰ 1 466

average M_n ~375 viscosity 42 cSt (25 °C)(lit)

23.90

contains 1,000-1,500 ppm MEHQ as inhibitor R 36/37/38 S 26-36 Fp 113 °C (235 °F)

469823-100ML glass btl 100 ml 469823-500ML glass btl 500 mL

Poly(ethylene glycol) behenyl ether methacrylate solution

[125441-87-4] $H_2C = C(CH_3)CO_2(CH_2CH_2O)$, $(CH_2)_{21}CH_3$

average M_n ~1,500, 50 wt. % in methacrylic acid/water Copolymerizable surfactant and associative thickener in acrylic

latexes.

viscosity 300 cP (25 °C)(lit)

contains 1000 ppm MEHQ as stabilizer, 25% water 95 °C n_D²⁰ 1 06 g/mL, 25 °C pH

R 20/21/22-34-43 S 26-27-36/37/39-45 Fp 113 °C (235 °F)

100 mt 29 50 468258-100ML glass btf 468258-250ML glass btl 250 mL 60 20

Poly(ethylene glycol) bis(3-aminopropyl) terminated O, O'-Bis(3-aminopropyl)polyethylene glycol 1,500

[34901-14-9] (C2H4O)nC6H16N2O

452572-1G glass btl 26.60 452572-5G glass btl 5 g 87.50

Poly(ethylene glycol) bis(carboxymethyl) ether

Polyethylene glycol 600 diacid, Polyglycol 600 diacid [39927-08-7] HOOCCH₂(OCH₂CH₂)_nOCH₂COOH R 34 S 26-36/37/39 45 Fp 113 °C (235 °F)

▶ average M_n ~250 1.302 g/mL, 25 °C n_D²⁰ 1.454 density 406996-100G glass btl 100 g 73 90

31.30

103 50